



The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

05/31/2011

Thomas Costello  
Assistant District Attorney, Suffolk County

Dear ADA Costello,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan & Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631

## Curriculum Vitae

**Annie Khan (Dookhan)**

### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

### Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Responsible for the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

### Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

**DRUG RECEIPT**

CC #

BOOK #

PAGE #

DESTRUCTION #

District/Unit

Name &amp; Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

DESCRIPTION OF ITEMS SUBMITTED

GROSS  
QUANTITYGROSS  
WEIGHT

## LAB USE ONLY

ANALYSIS  
NUMBER

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

No. [REDACTED]

Date Analyzed:

7/22/10

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def: [REDACTED]

Amount: 10.0

Subst: TABS

No. Cont: 1 Cont: pb

Date Rec'd: 03/09/2010

No. Analyzed:

Gross Wt.: 5.32

Net Weight: 3.94

# Tests:

1 ASD  
• 2 LAC

Prelim: Buprenorphine

Findings:

B

Buprenorphine

# DRUG POWDER ANALYSIS FORM

SAMPLE #                      AGENCY Boston ANALYST ASJ

No. of samples tested:            Evidence Wt.           

## PHYSICAL DESCRIPTION:

10 orange hexagonal tablet  
in pb

Gross Wt ( ):           

Gross Wt ( ):           

Pkg. Wt:           

Net Wt: 3.9403



## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( )           

Marquis           

Froehde's           

Mecke's           

### Microcrystalline Tests

Gold  
Chloride           

TLTA ( )           

### OTHER TESTS

Minomelic AIT

## PRELIMINARY TEST RESULTS

RESULTS Buprenorphine

DATE 7-6-11

## GC/MS CONFIRMATORY TEST

RESULTS Buprenorphine

MS  
OPERATOR KAC

DATE 7-22-10

**POISINDEX® Product List****Suboxone**

**Regulatory-Status:** Schedule III

**Ingredients**

**Active-Ingredients:** Naloxone - 2 MG  
Buprenorphine - 8 MG

**Availability & Manufacturing**

**Availability:** United States

**Available-Container-Size:** Bottle of 30

**Contact:** Reckitt Benckiser

**Product ID:** 6370996

**AAPCC Code:** 200625 - Buprenorphine

**Registry Number:** NDC 12496-1306-02

**Physical Description**

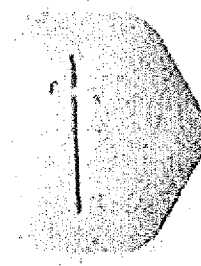
**Imprint:** N8; Sword Logo

**Form:** Tablet

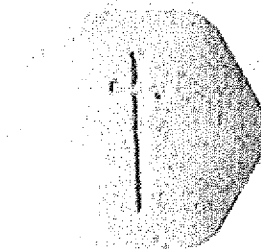
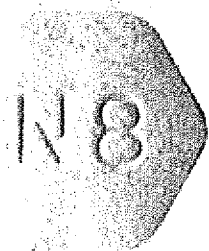
**Color:** orange

**Shape:** Six-sided

**Images for NDC 12496-1306-02**



**Images for NDC 12496-1306-02**



© 1974- 2011 Thomson Reuters. All rights reserved.

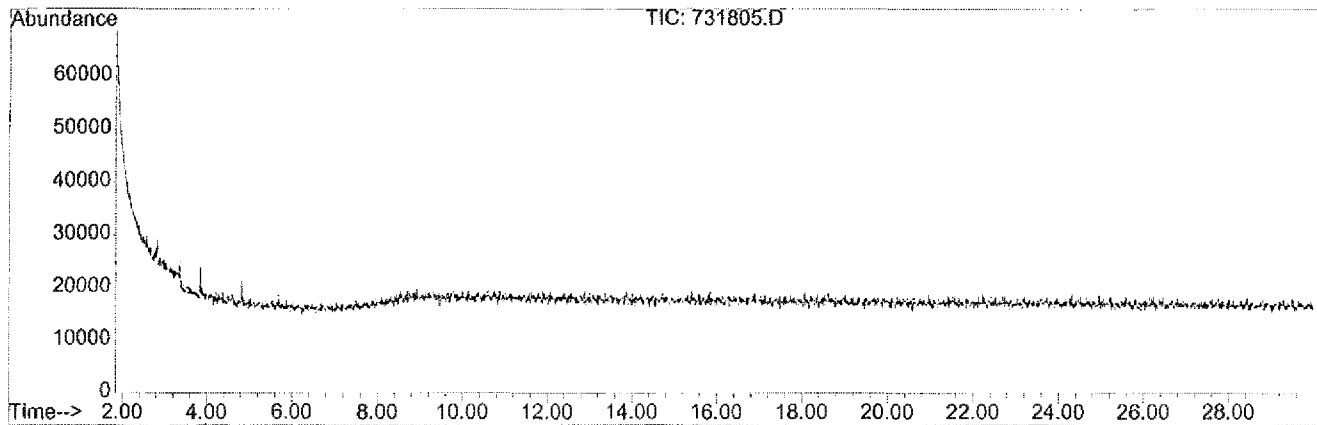
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731805.D  
Operator : ASD  
Date Acquired : 19 Jul 2010 8:25  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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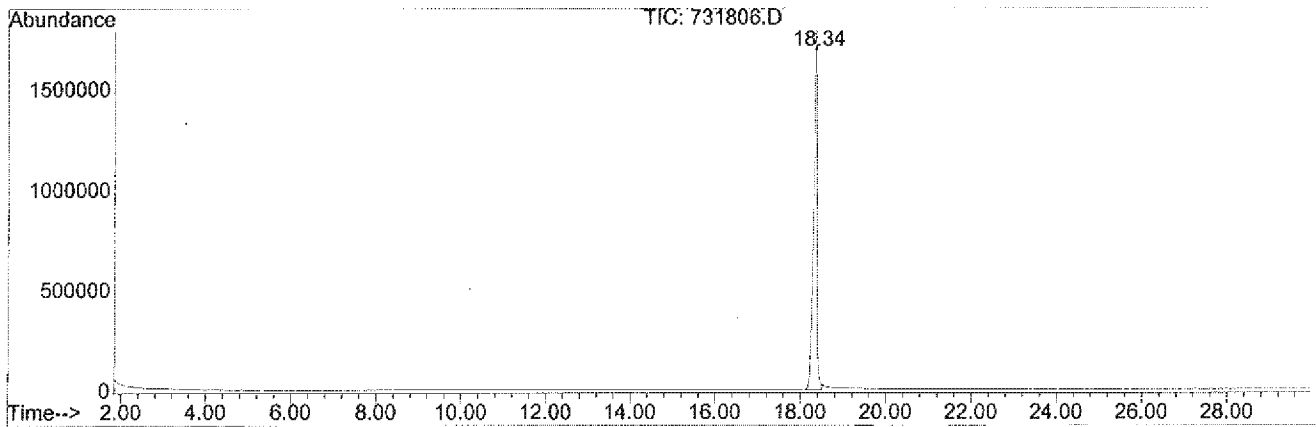
\*\*\*NO INTEGRATED PEAKS\*\*\*



# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731806.D  
 Operator : ASD  
 Date Acquired : 19 Jul 2010 8:58  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 6  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
18.342	9921036	100.00	100.00

# Area Percent / Library Search Report

**Information from Data File:**

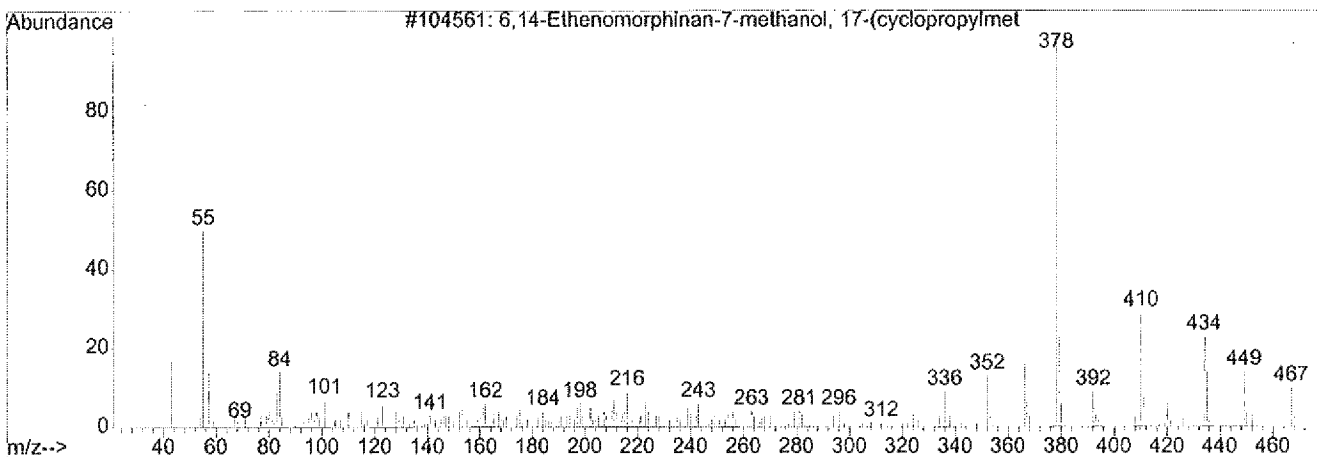
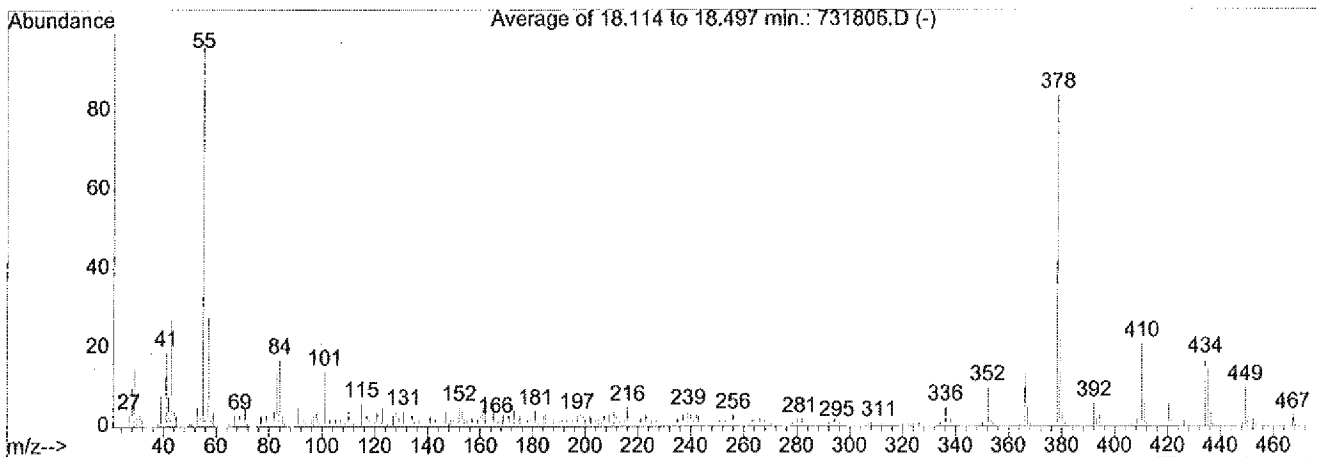
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File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731806.D
Operator        : ASD
Date Acquired   : 19 Jul 2010   8:58
Sample Name     : BUPRENORPHINE STD
Submitted by    :
Vial Number     : 6
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

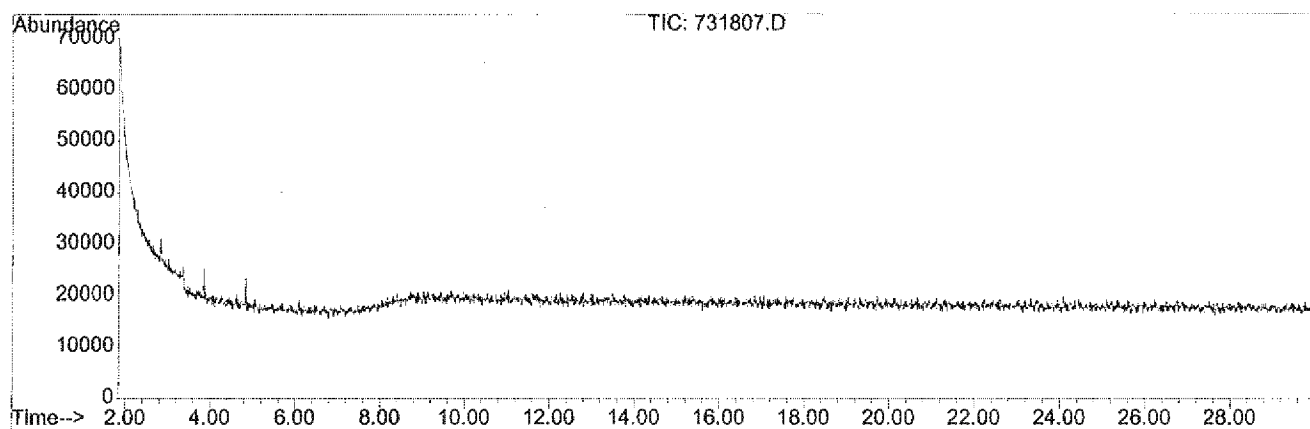
PK#	RT	Library/ID	CAS#	Qual
1	18.34	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	95
		Anthiaergosta-5,7,9,22-tetraene	1000213-42-2	55
		Dibenzo[a,c]pentacene	000216-08-0	43



# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731807.D  
 Operator : ASD  
 Date Acquired : 19 Jul 2010 9:31  
 Sample Name : BLANK  
 Submitted by :  
 Vial Number : 1  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

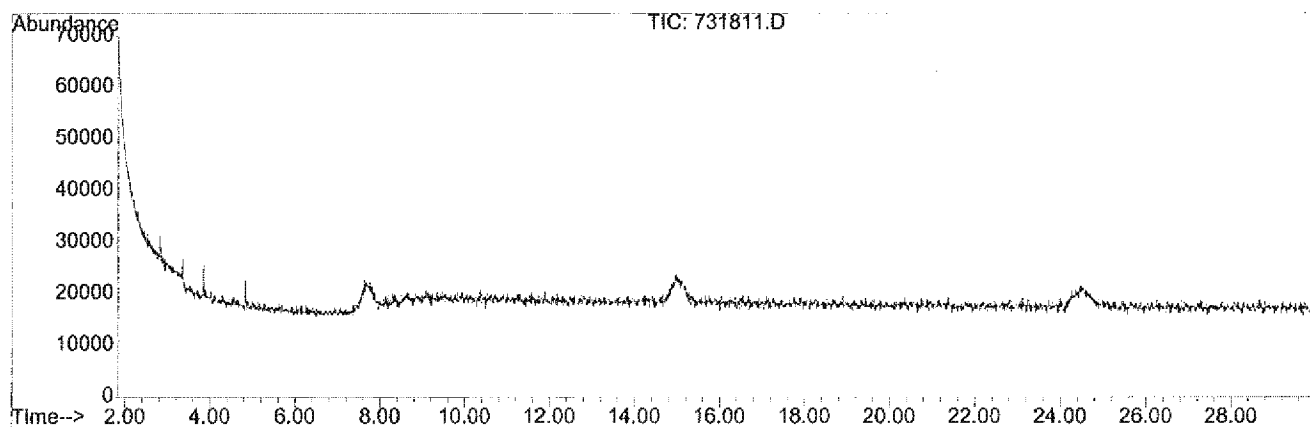
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731811.D  
Operator : ASD  
Date Acquired : 19 Jul 2010 11:43  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: WSCREEN  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
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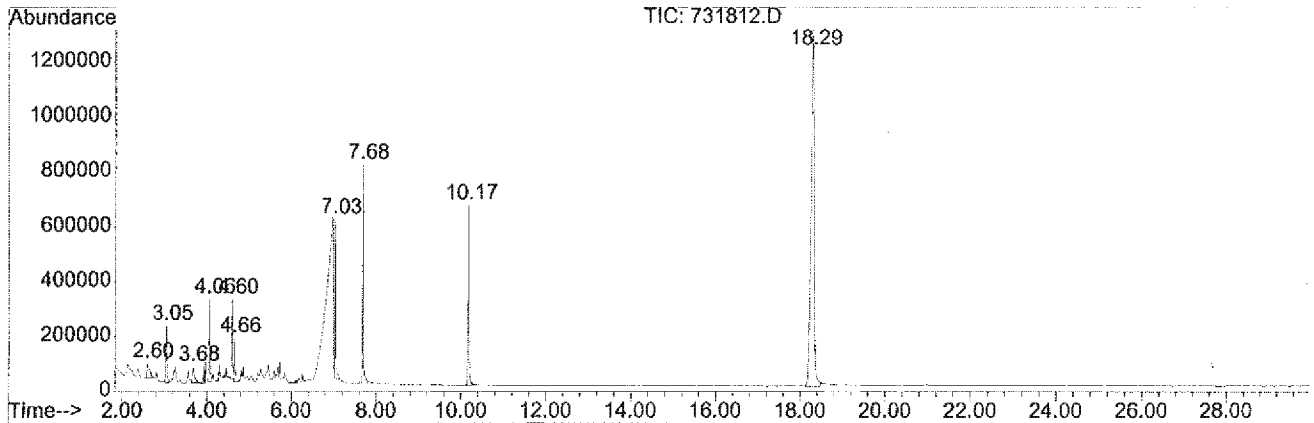
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731812.D  
 Operator : ASD  
 Date Acquired : 19 Jul 2010 12:16  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 12  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.597	222187	1.97	3.30
3.046	365589	3.25	5.43
3.681	204683	1.82	3.04
4.059	433241	3.85	6.43
4.598	374111	3.32	5.55
4.657	275154	2.44	4.08
7.029	615488	5.47	9.14
7.676	917122	8.14	13.61
10.167	1116076	9.91	16.57
18.288	6736567	59.83	100.00

# Area Percent / Library Search Report

**Information from Data File:**

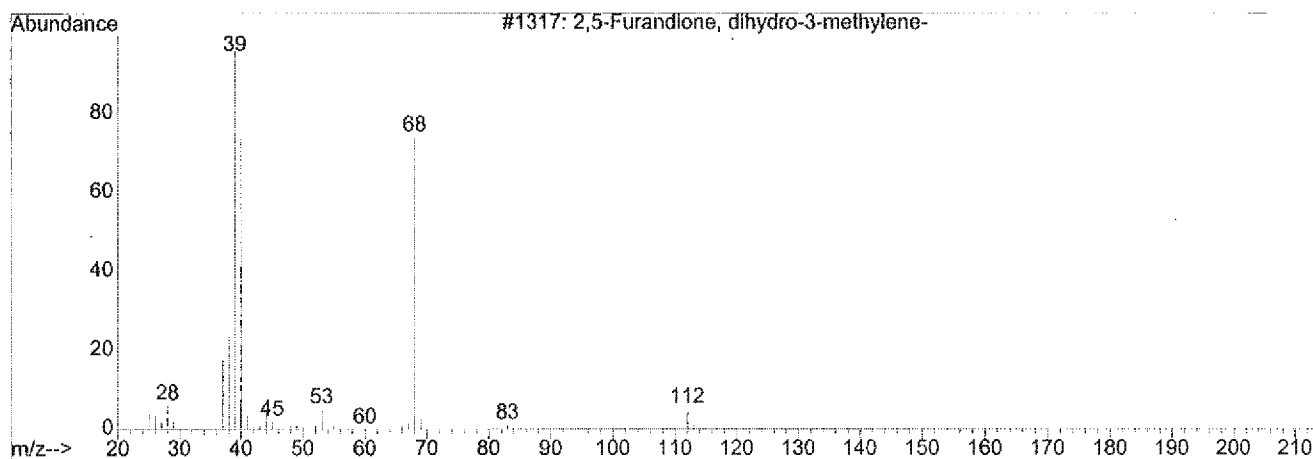
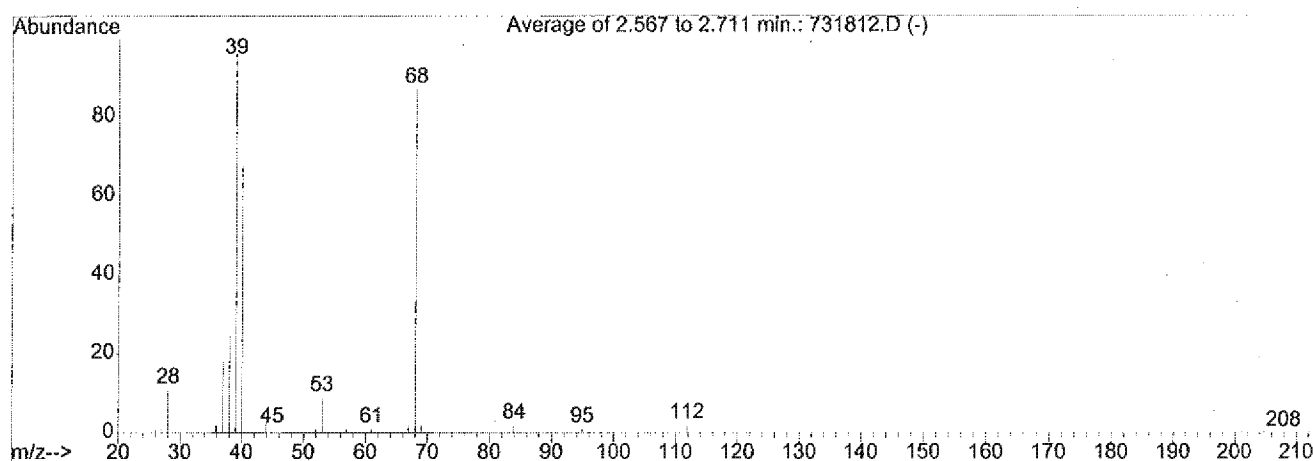
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File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010  12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.60	C:\DATABASE\NIST98.L		
		2,5-Furandione, dihydro-3-methylene	002170-03-8	91
		2,5-Furandione, 3-methyl-	000616-02-4	83
		2H-Pyran-2-one	000504-31-4	83



# Area Percent / Library Search Report

**Information from Data File:**

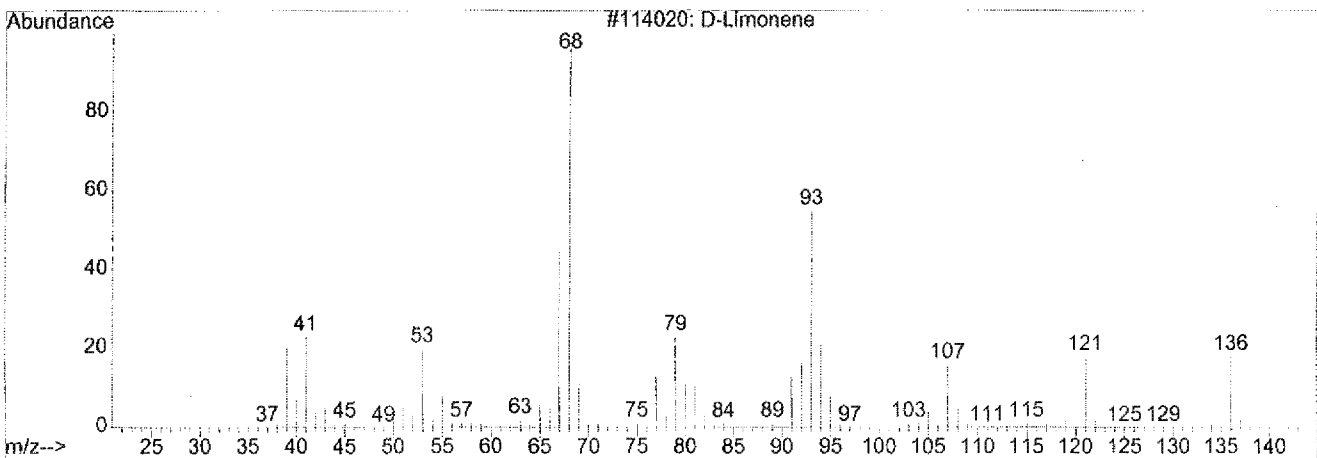
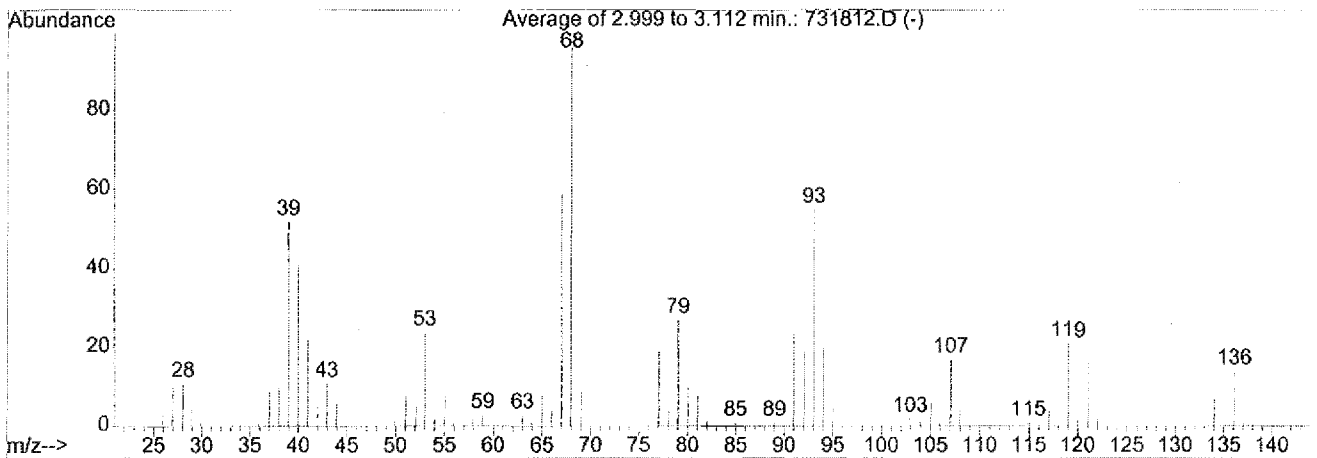
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File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010  12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	3.05	C:\DATABASE\NIST98.L		
		D-Limonene	005989-27-5	93
		Limonene	000138-86-3	93
		D-Limonene	005989-27-5	93



# Area Percent / Library Search Report

**Information from Data File:**

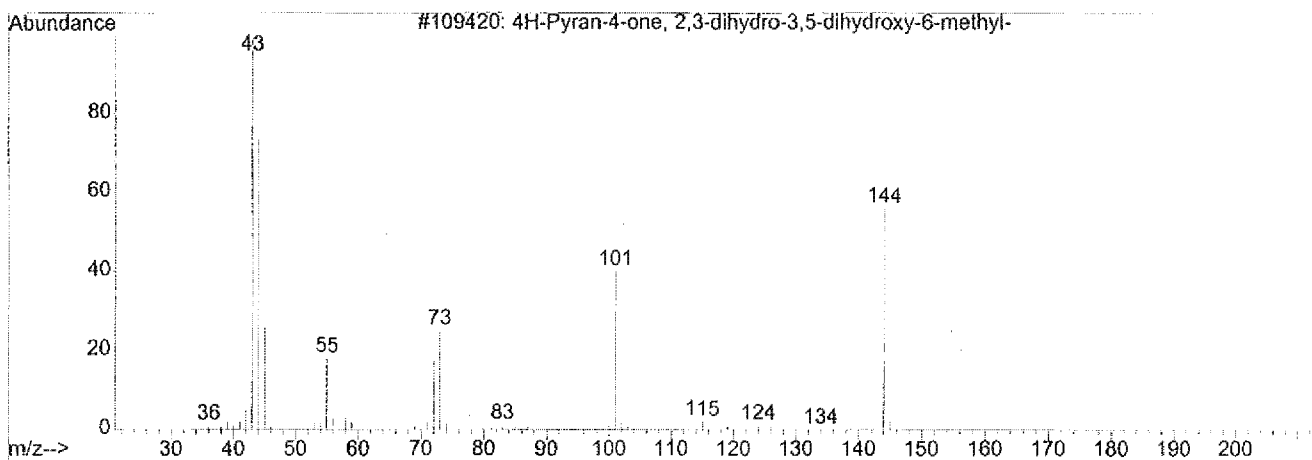
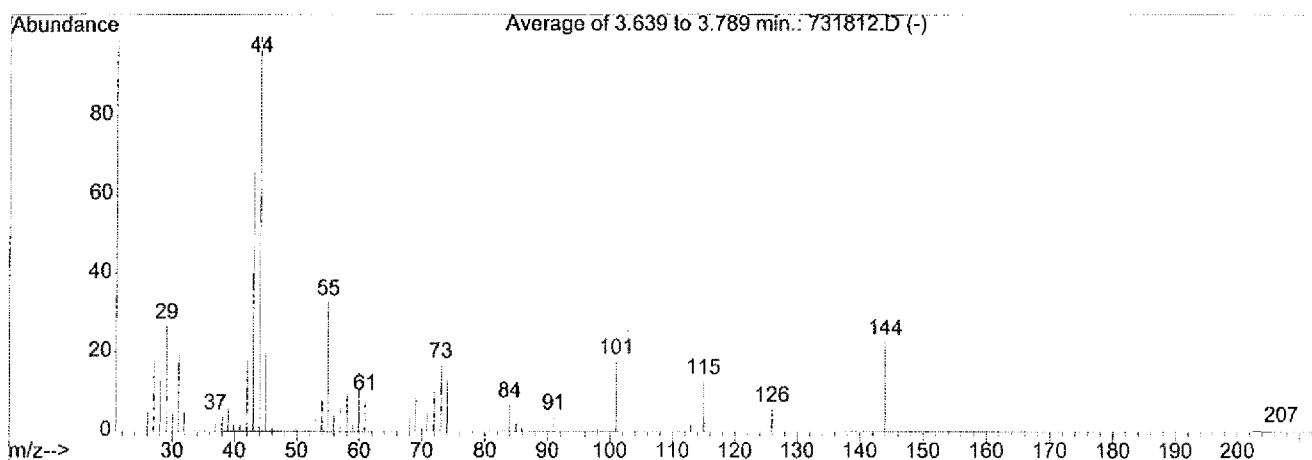
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File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010   12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
3	3.68	C:\DATABASE\NIST98.L		
		4H-Pyran-4-one, 2,3-dihydro-3,5-dih	028564-83-2	47
		2-Methylaminomethyl-1,3-dioxolane	057366-77-5	43
		o-Methylisourea hydrogen sulfate	029427-58-5	38





# Area Percent / Library Search Report

**Information from Data File:**

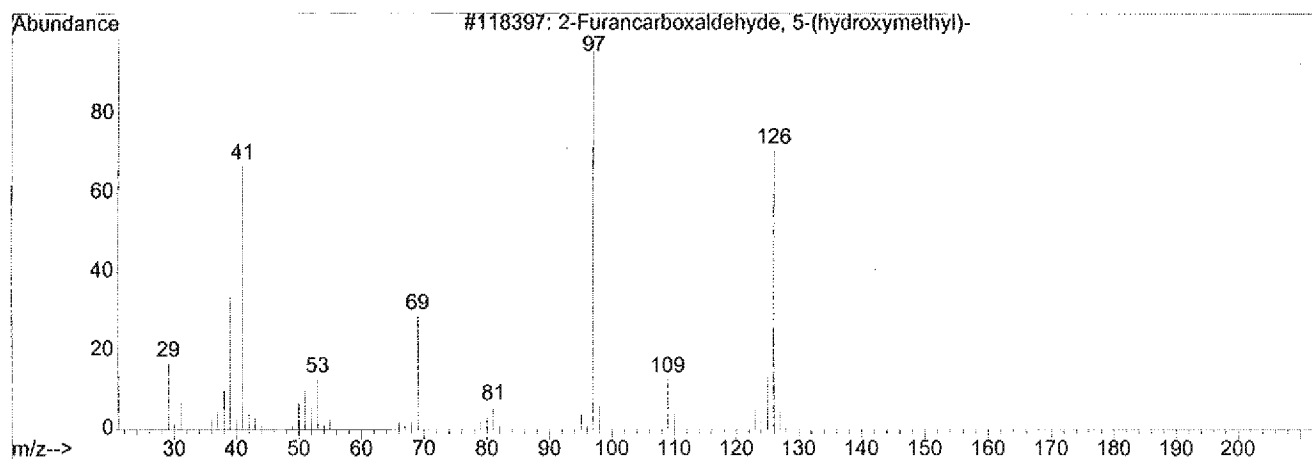
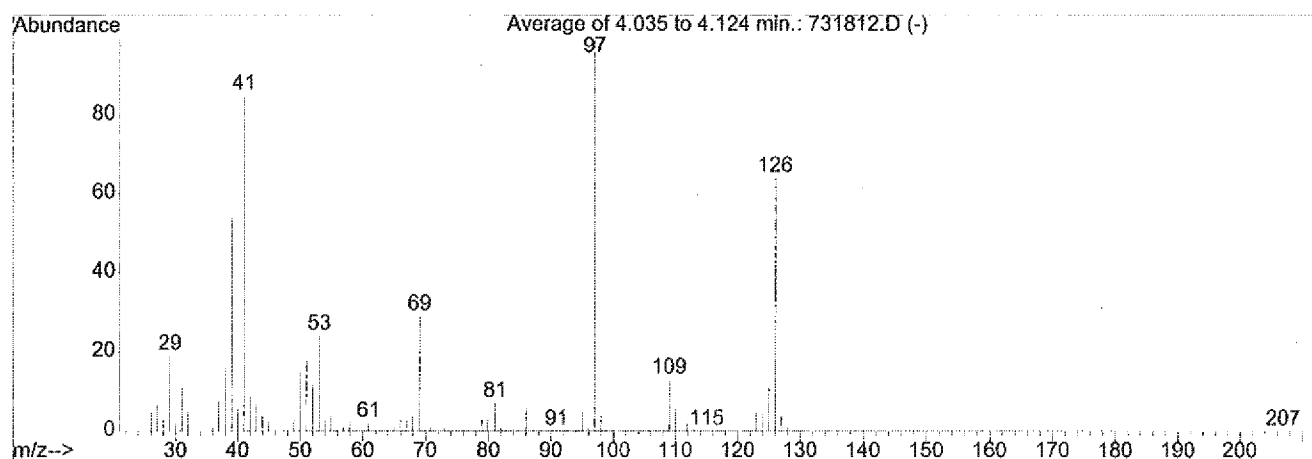
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File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010   12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
4	4.06	C:\DATABASE\NIST98.L		
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	93
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	58
		2-Furancarboxaldehyde, 5-(hydroxyme	000067-47-0	52



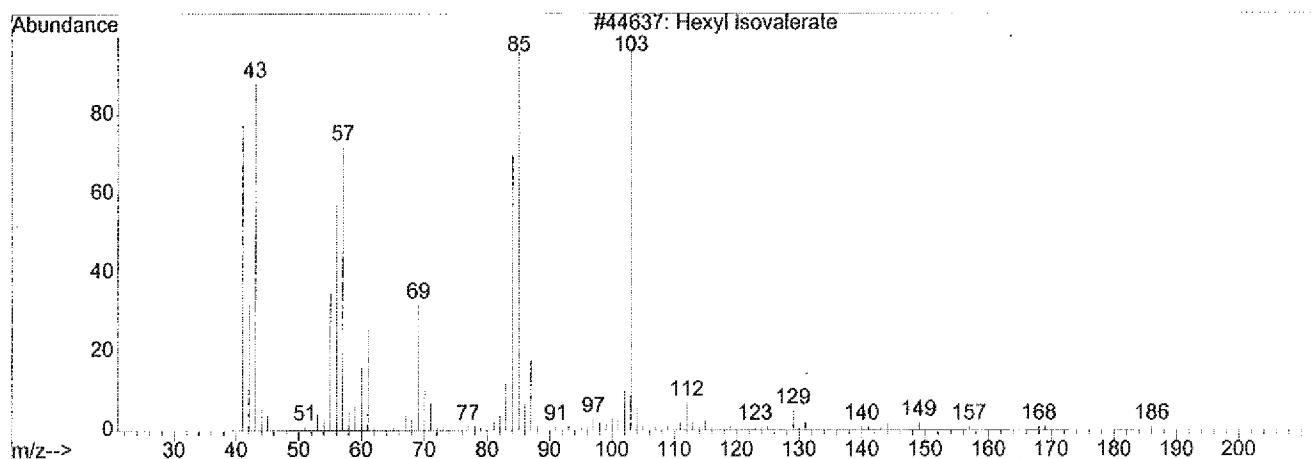
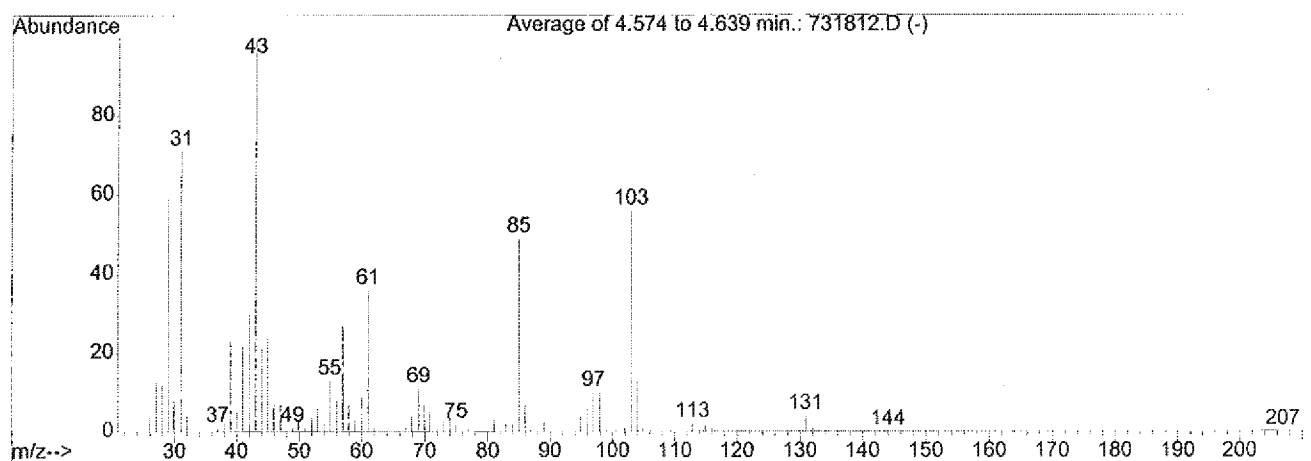
# Area Percent / Library Search Report

## Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731812.D  
 Operator : ASD  
 Date Acquired : 19 Jul 2010 12:16  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 12  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
5	4.60	C:\DATABASE\NIST98.L		
		Hexyl isovalerate	010632-13-0	42
		Butanoic acid, 3-methyl-, hexyl est	010032-13-0	33
		2-Oxazolidinethione	005840-81-3	16



# Area Percent / Library Search Report

**Information from Data File:**

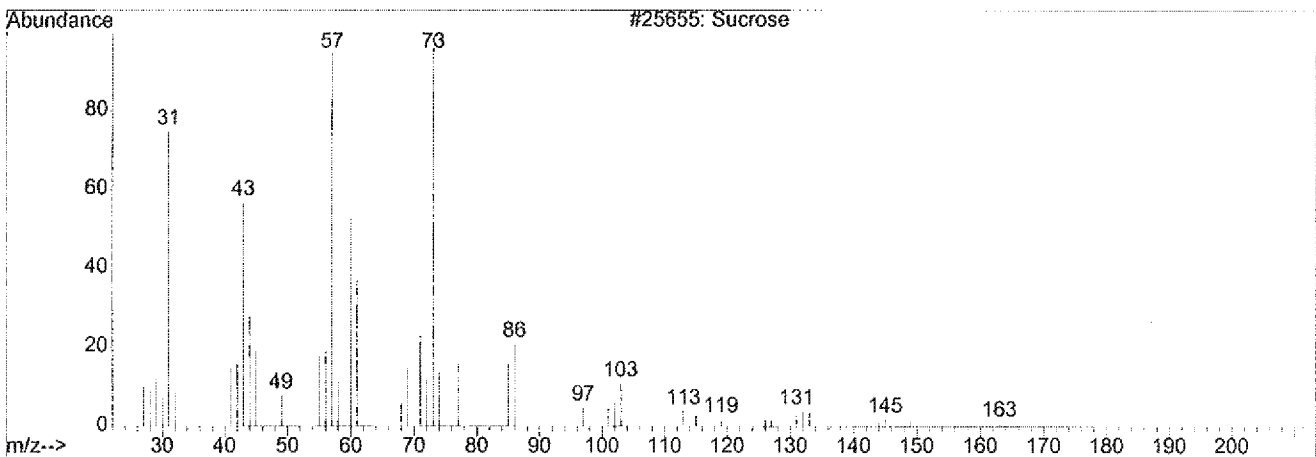
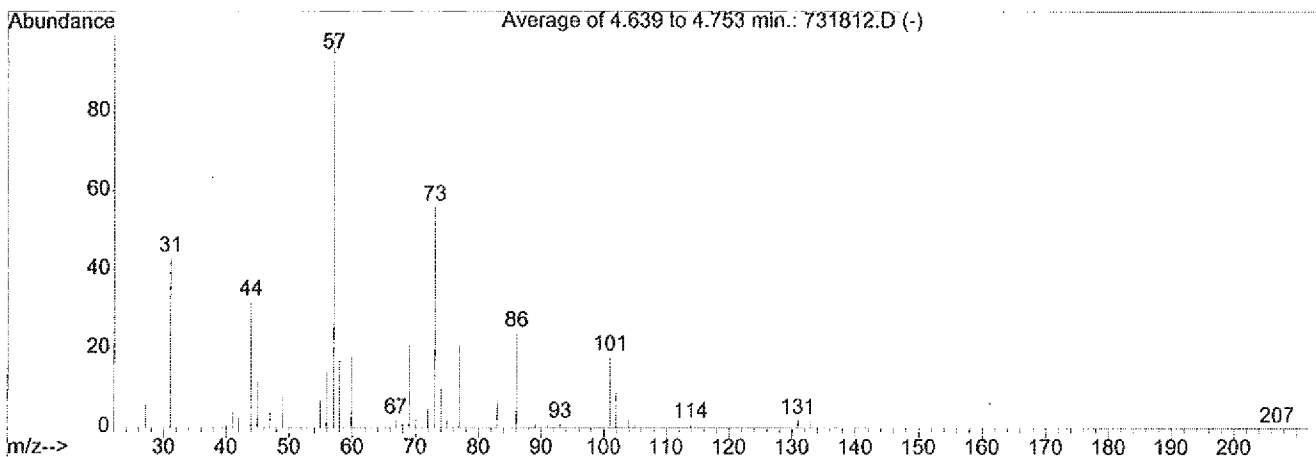
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File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010  12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
6	4.66	C:\DATABASE\NIST98.L		
		Sucrose	000057-50-1	23
		Methyl-.alpha.-d-ribofuranoside	1000129-83-1	16
		1,3-Dioxolane	000646-06-0	10



# Area Percent / Library Search Report

**Information from Data File:**

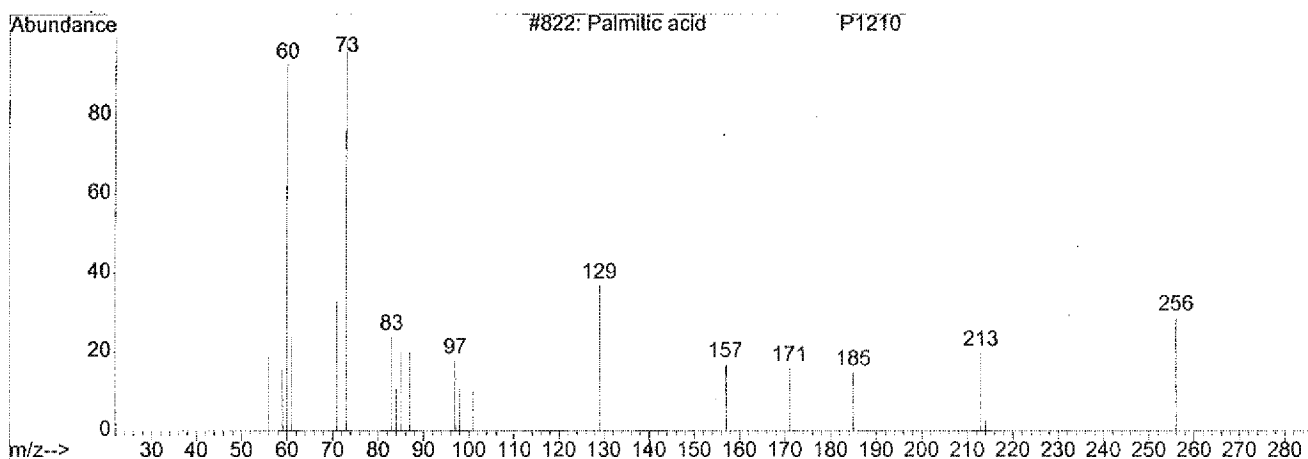
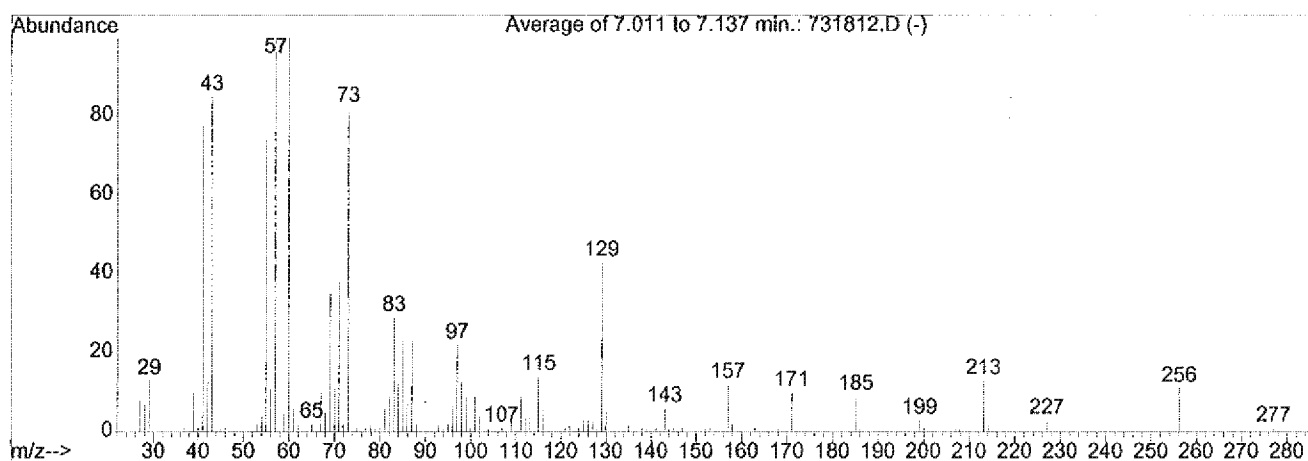
```

File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010  12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries:  C:\DATABASE\SLI.L             Minimum Quality: 90
                   C:\DATABASE\PMW_TOX2.L        Minimum Quality: 90
                   C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
7	7.03	C:\DATABASE\PMW_TOX2.L		
		Palmitic acid	000057-10-3	90
		Myristic acid	000544-63-8	42
		Octacosane	000630-02-4	10



# Area Percent / Library Search Report

**Information from Data File:**

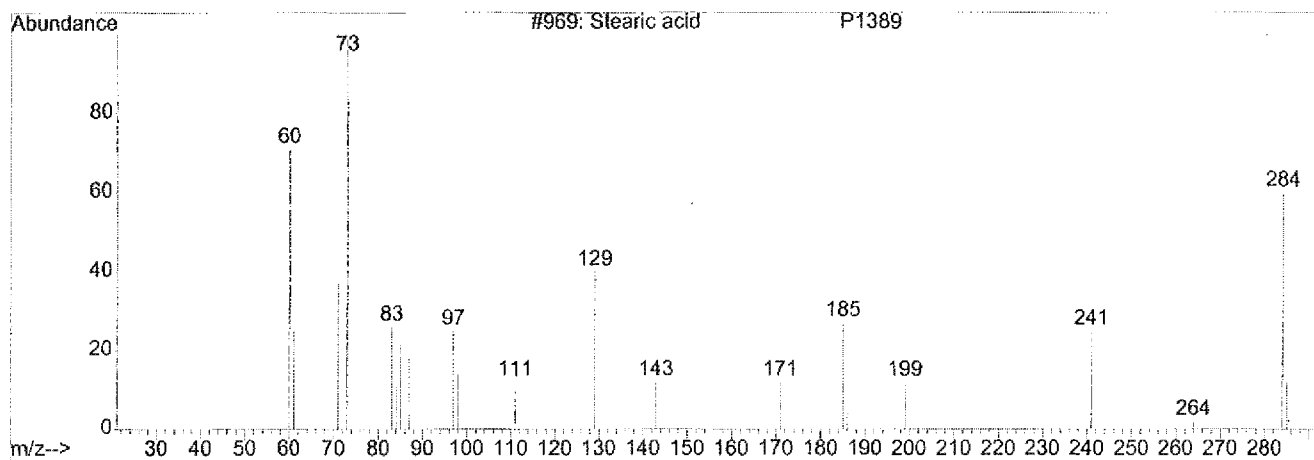
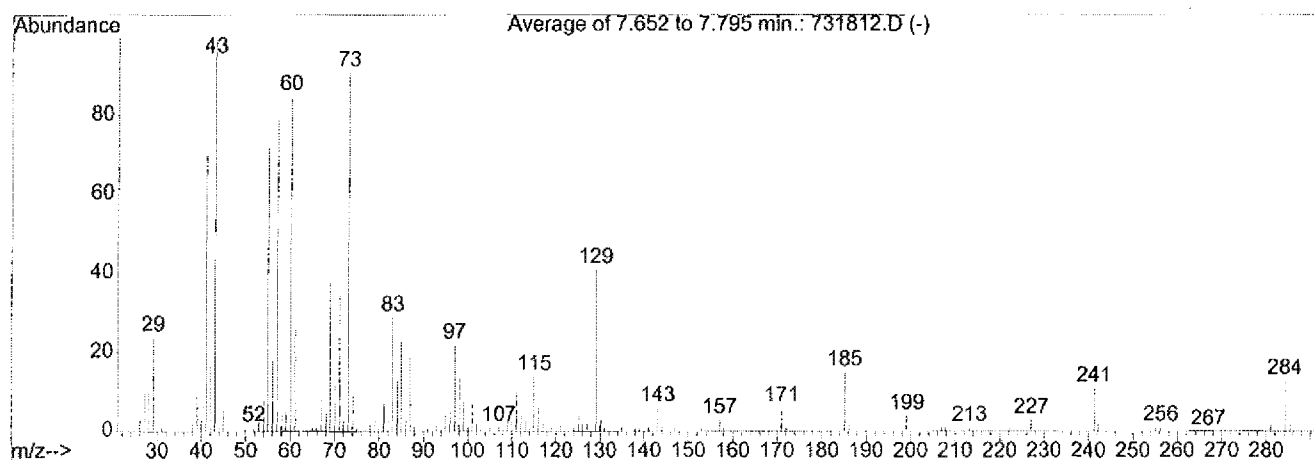
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File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010  12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
8	7.68	C:\DATABASE\PMW_TOX2.L		
		Stearic acid	000057-11-4	94
		Myristic acid	000544-63-8	74
		Linoleic acid	000060-33-3	9



# Area Percent / Library Search Report

**Information from Data File:**

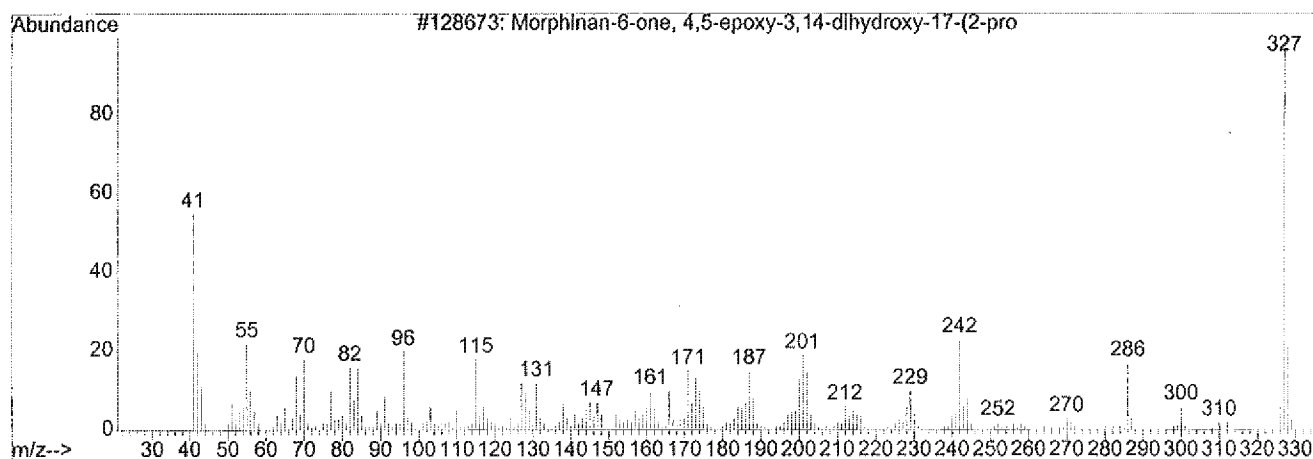
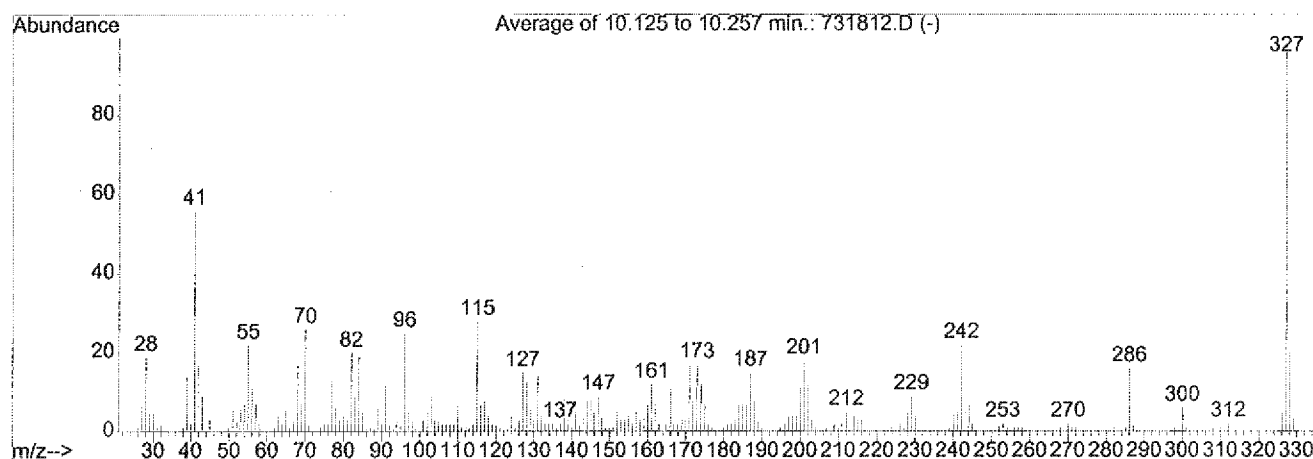
```

File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010  12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries:  C:\DATABASE\SLI.L             Minimum Quality: 90
                   C:\DATABASE\PMW_TOX2.L        Minimum Quality: 90
                   C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
9	10.17	C:\DATABASE\NIST98.L		
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	99
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	99
		Morphinan-6-one, 4,5-epoxy-3,14-dih	000465-65-6	98



# Area Percent / Library Search Report

**Information from Data File:**

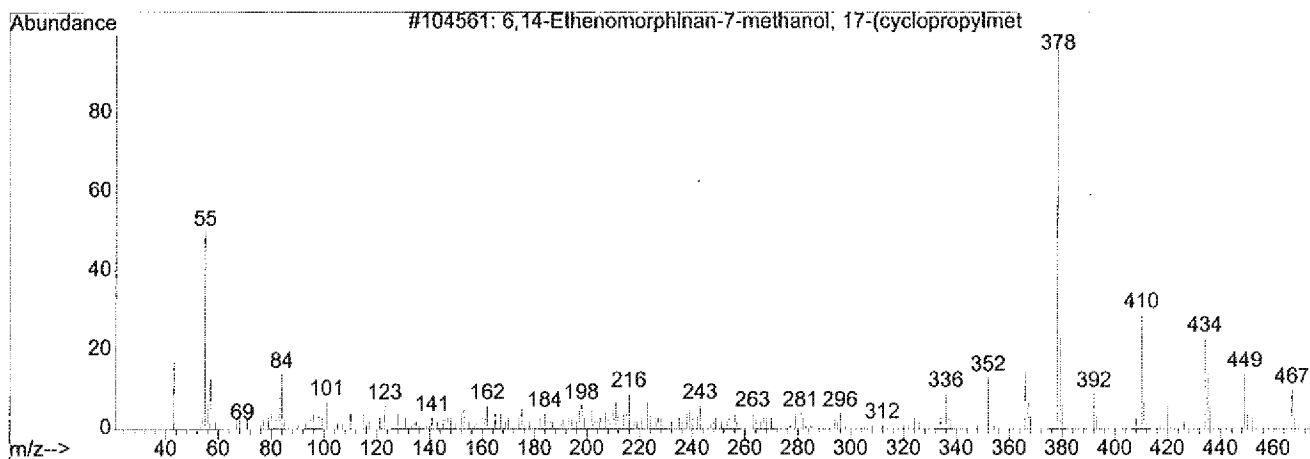
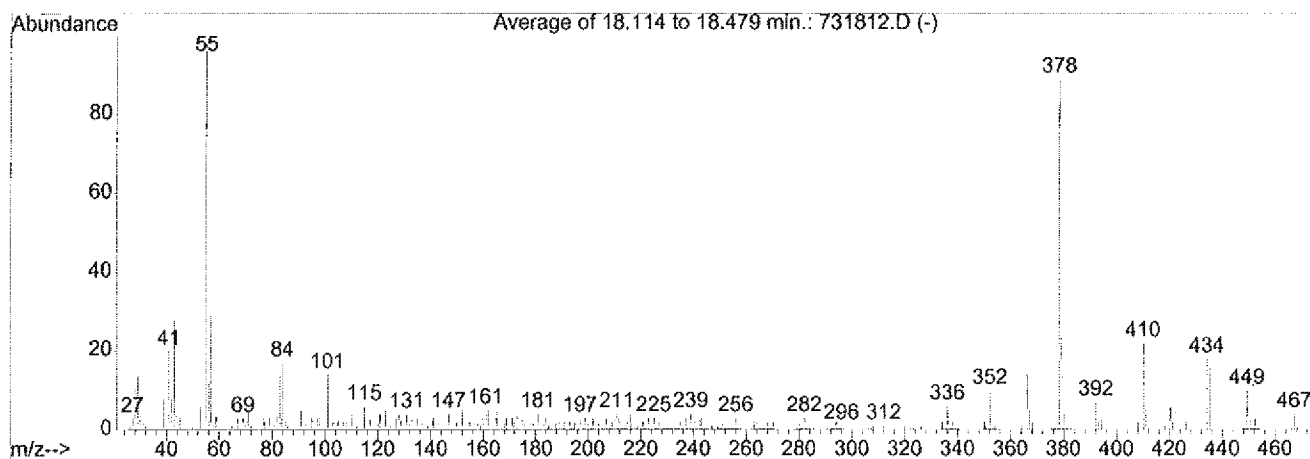
```

File Name       : F:\Q3-2010\SYSTEM8\07_19_10\731812.D
Operator        : ASD
Date Acquired   : 19 Jul 2010   12:16
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : WSCREEN
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

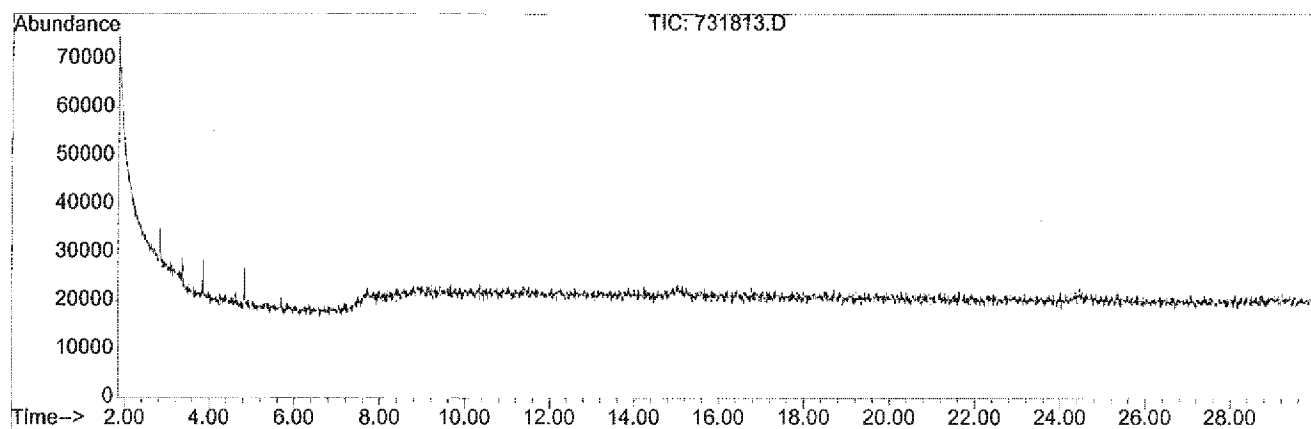
PK#	RT	Library/ID	CAS#	Qual
10	18.29	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	95
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	83
		10-Methoxycamptothecin	019685-10-0	55



# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731813.D  
 Operator : ASD  
 Date Acquired : 19 Jul 2010 12:49  
 Sample Name : BLANK  
 Submitted by : ASD  
 Vial Number : 1  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*



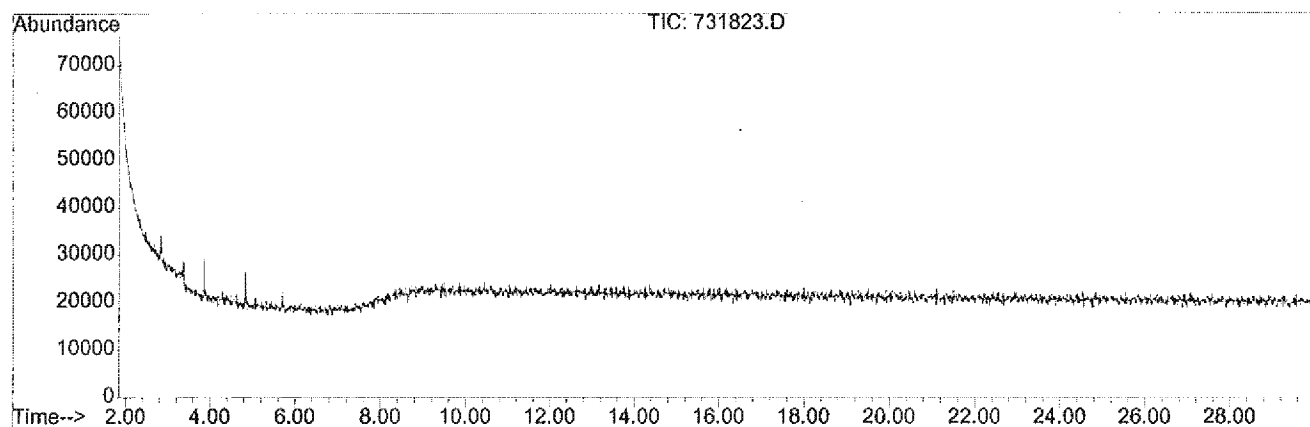
# Area Percent / Library Search Report

---

## Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731823.D  
Operator : ASD  
Date Acquired : 19 Jul 2010 18:20  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: WSCREEN  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
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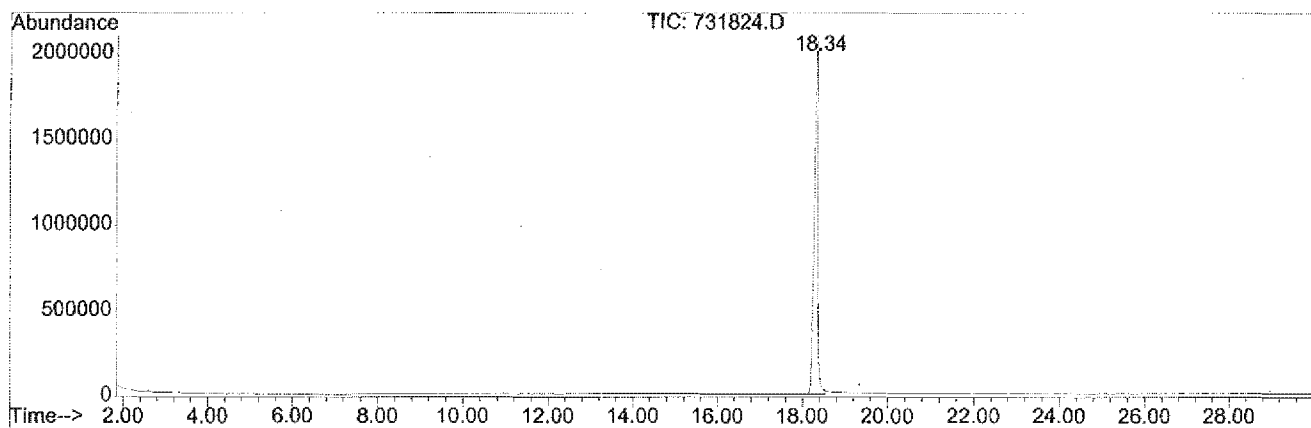
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\*\*\*NO INTEGRATED PEAKS\*\*\*

# Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731824.D  
 Operator : ASD  
 Date Acquired : 19 Jul 2010 18:53  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 6  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
18.336	12107964	100.00	100.00

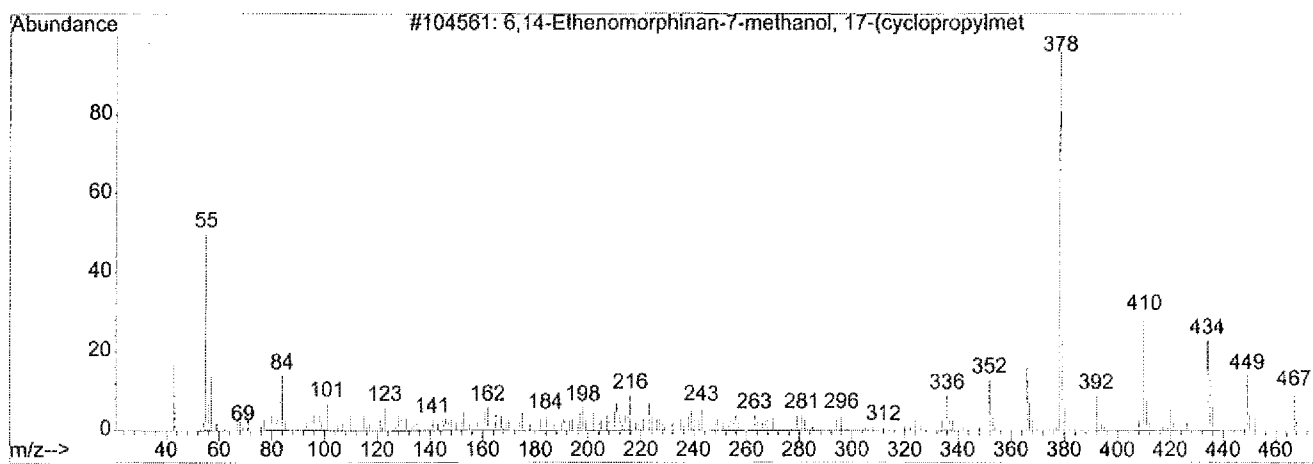
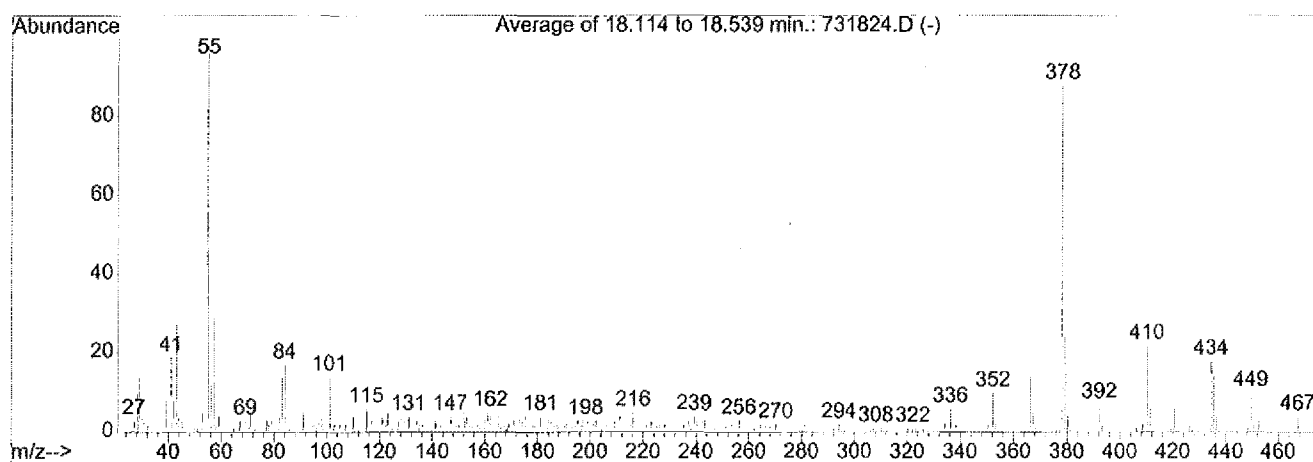
# Area Percent / Library Search Report

**Information from Data File:**

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731824.D  
 Operator : ASD  
 Date Acquired : 19 Jul 2010 18:53  
 Sample Name : BUPRENORPHINE STD  
 Submitted by :  
 Vial Number : 6  
 AcquisitionMeth: WSCREEN  
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
 C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	18.34	C:\DATABASE\NIST98.L		
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	95
		6,14-Ethenomorphinan-7-methanol, 17	052485-79-7	83
		Anthiaergosta-5,7,9,22-tetraene	1000213-42-2	55



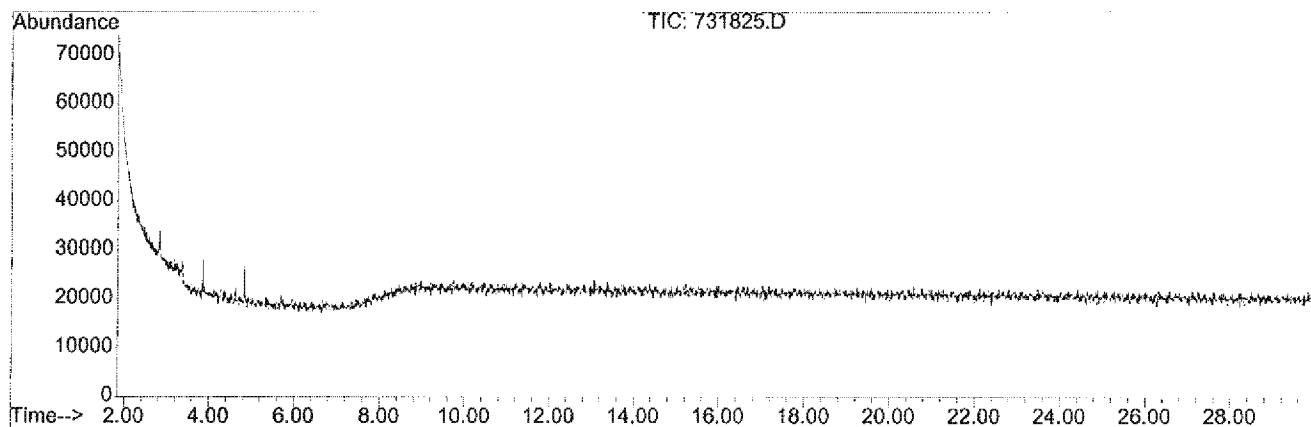
# Area Percent / Library Search Report

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## Information from Data File:

File Name : F:\Q3-2010\SYSTEM8\07\_19\_10\731825.D  
Operator : ASD  
Date Acquired : 19 Jul 2010 19:26  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: WSCREEN  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*